2/2 028 UNCLASSIFIED CIRC ACCESSION NO--AP0129983 PROCESSING DATE--04DEC70 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. REGULAR SYNTHETIC POLYTRIPEPTIDES WITH GLYCINE IN THE 1ST AND AMINO OR IMINO ACIDS IN THE 2ND AND 3RD POSITION WERE STUDIED AS MODELS OF STRUCTURAL PECULIARITIES OF COLLAGEN PROTEINS. THE NECESSARY AND SUFFICIENT CONDITION FOR THE EXISTENCE OF COLLAGEN STRUCTURE IS THE OCCURRENCE OF GLYCINE IN THE IST AND OF AT LEAST ONE IMINO ACID IN THE 2ND OR 3RD POSITION IN THE TRIPLET. X RAY ANAL. OF CRYST. GLYCINE, IMINO ACID, AMINO ACID POLYMERS VERIFIED THE ROLE OF AGGREGATES OF THIS TYPE IN THE STRUCTURE OF COLLAGEN. FACILITY: INST. MOL. BIOL., MOSCOW, USSR. UNCLASSIFIED

UDG 621.357.2166.0611669.783

BIKASHEV, G. K., YESIRKEGENOV, G. M., and KHUDAYBERGEROV, T. YE.

"The Influence of FerGe Ratio on the Migration of Germanium in Solution During the Electrochemical Leaching of Sintered Wafers of the Type xFe₂0₃yGe0₂"

Kazakhsk, politkh. in-t. Alma-Ata (Kazakstan Polytechnica Institute of Alma-Ata), 1972, 12 pp (Manuscript from a dep (expansion unknown) in VINITI (All-Union Institute of Scientific and Technical Information), No 5058-5072 Dep. (expansion unknown) from 13 Nov 1972 (from Referativnyy Zhurnal -- Khimiya, No 8(II), 1973, Abstract No 8L310)

Translation: Data are presented on laboratory studies on the leaching of wafers containing the oxides of Fe and Ge. Double sulfuric acid treatment of these wafers resulted in the extraction of 5 or 6% Germanium into solution. Applying an electric field having a constant current during the second stage of leaching very effect; sly transferred the Ge into a liquid phase.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

USSR

UDC 681.208

YESTYEV, M. K., Candidate of Technical Sciences, SUBBOTIN, Yu. A., Engineer

"The Ordering of Measured Parameters"

Moscow, Izvestiya Vysshykh Uchebnykh Zavedeniy, Mashinostroyeniye, No 12, 1970, pp 60-64

Abstract: A normal linear model of an object is introduced, which explains all the correlations or covariantions of the parameters of the action of an arbitrary number of orthogonal causes, the property of which is unknown. By using the relationships of factor analysis, it is possible to determine the loads of any variable upon any factor. Variations of weights upon the factors, which have obtained a physical interpretation, may be used as a means for determining the information value of the measured parameter with respect to an objectively acting perturbing cause. 8 bibliographic entries.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--ASYMPTOTIC PROPERTIES OF A SOLUTION TO A CAUCHY PROBLEM FOR THE
HEAT CONDUCTION EQUATION -U-

AUTHOR-YESKIN, L.D.

COUNTRY OF INFO--USSR

SOURCE--MATEMATIKA, FEB. 1970, P. 100-106

DATE PUBLISHED----70

SUBJECT AREAS -- PHYSICS

TOPIC TAGS--ASYMPTOTIC PROPERTY, CAUCHY PROBLEM, THERMAL CONDUCTIVITY, DIFFERENTIAL EQUATION SOLUTION

CONTROL HARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1502

STEP NO--UR/0410/70/000/000/0100/0106

CIRC ACCESSION NO--APOLIB489

----UNGLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

2/2 013 UNCLASSIFIED PROCESSING DATE--300CT70
CIRC ACCESSION NO--APOI18489
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. ANALYSIS OF THE ASYMPTOTOC
BEHAVIOR OF A SOLUTION TO THE CAUCHY PROBLEM OF THE HEAT CONDUCTION
EQUATION. A THEOREM AND SEVERAL LEMMAS. ARE DERIVED AND PROVED TO
ESTIMATE THE RESIDUAL MEMBER IN THE TERM U(X, T) WHEN I TENDS TO
INFINITY.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

Physiology

USSR

UDC 595.799:578.084

YES'KOV, Ye. K., Scientific Research Institute of Beekeeping, Rybnoye, Ryazanskaya Oblast

"On the Characteristics of the Acoustic Signal of Distance Used by Honey Bees (Apis mellifera)"

Moscow, Zhurnal Obshchey Biologii, Vol 33, No 2, Mar/Apr 72, pp 217-222

Abstract: Research was conducted to determine the effect of environmental changes and the extent of hereditary influences on the characteristics of the honey-bee's signal of distance for the purpose of evaluating the reliability of using the acoustic indexes of this signal for race identification. Bees reared in the hive of another race preserve the characteristic signal of their own race, thus the signal is hereditary. Amount of food, size of hive, and external temperature do not change the indexes of the signal of distance. Substantial temperature reduction inside the hive (to 16-17°C) increases the signal's duration and quantity of periods in the pulse, and decreases the pulse repetition rate, but does not affect the carrier frequency. Only the structure of the pulse is affected by the age of the bee. Indexes do not depend on the "dancer's" orientation to the sun or, in the dark, on gravity. Effectiveness of communication and signal 1/2

USSR

YES'KOV, Ye. K., Zhurnal Obshchey Biologii, Vol 33, No 2, Mar/Apr 72, pp 217-222

structure are not influenced by the "dancer's" orientation in the horizontal plane if it can see the sky. In this, Apis mellifera is shown to have a more highly developed signaling mechanism than other representatives of the genus Apis. The indexes of the signal of distance may be used as a reliable device for race identification of A. mellifera under almost any conditions of bee foraging.

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YES KOV. YE. K., Scientific Research Institute of Agriculture, Rybnoye, hyazanskaya Oblast

"Racial Specificity of Sound Signals of Bees Transmitting Information on Flight Distance to Food Source"

Noscow, Zhurnal Obshchey Biologii, Vol 32, No 2, Mar/Apr 71, pp 217-223

Abstract: Sound signals emitted by Apis mellifera ligustica and Apis mellifera carnica "dancers" were recorded under various experimental conditions. Some "dancer" bees were born and grew up in their own hives, while others were among bees of the other race. The sound records were analyzed for duration of the signals, wave frequency, and number of impulses comprising one signal. The results of this investigation have shown that neither the campany of bees its aroma change the sound signals. The duration of sugar in the syrup, nor with the flight distance to the food source, to which it is directly proportional. Sound signals, the conclusion is drawn that these signals represent a hereditary property which mya be used to identify the race of a bee.

- 80 -

YES'KOV, Ye. K., Scientific Research Institute of Agriculture, Rybnoye, Ryazanskaya Oblast

"Selective Reaction of Bees to Sound Signals"

Moscow, Biofizika, Vol 16, Vyp 4, Jul/Aug 71, pp 743-745

Abstract: Reactions of bees to auditory stimuli were investigated in early spring when their activity in the hives increases but they are still unable to leave the hives. Tapes on which sounds emitted by alarmed bee families were previously recorded (intensity in the frequency range of 120-180 c/sec increased by 20 db above the normal level) were replayed through a transmitter located in the test hive. The bees responded by increasing their sounds by 6-7 db in the 120-180 c/sec range. When pure sounds of the frequency of 500 c/sec were played, the bees responded in 2-3 mins by lowering the whole range of their sounds by 3-4 db. It is concluded that bees are munication.

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- 70 -

USSR

UDC 595.796 Formicinae: 691.582

YES'KOV, Ye. K., Institute of Apiculture, Rybnoye, Ryazanskaya Oblast

"Acoustic Signals of Ants (Formicinae)"

Moscow, Zoologicheskiy Zhurnal, No 5, 1973, pp 709-713

Abstract: Observations on the carpenter (Camponotus herculeanus) and cornfield (Lasius niger) ants showed that the sounds emitted by these insects are caused by their knocking against the substrate on which they happen to be. The abdomen, less commonly the mandibles, is used for this purpose. The sounds are actually made by the substrate and their intensity and spectral composition varies with the acoustic properties of the substrate. The sounds are emitted primarily to alert other ants to danger and stimulate their defensive reactions. The substrate is used not only to generate but to transmit signals. Sounds propagated via the air do not appear to have any information value for the ants under study.

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USSR

UDG 595.799:591.5

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YES'KOV, YE. K, Scientific Research Institute of Agiculture

"Sound Background of a Bee Colony"

Moscow, Zoologicheskiy Zhurnal, No 2, 1970, pp 241-248

Abstract: The intensity of the sound background of a beehive is directly related to the activity of the bees. It is most influenced by the ambient temperature, and is highest in summer and lowest in winter. In the course of a year it varies by 38-42 db. Diurnal temperature fluctuations alter the intensity of the background by 5-6 db. The extent of the diurnal fluctuations in intensity varies with the temperature range and amount of nectar brought to the hive. The higher the temperature and the lower the range of fluctuations during the day, the less the intensity of the sound background is affected. The sound background of a colony under normal conditions lies within a frequency range of 20 to 12,000 Hz (range of intensities 40 db). The stable frequency constituents lie in the 60 to 500 Hz range. Some of these constituents may serve as signals for the members of the hive.

USSR

UDC 595.799:654.92

YES'KOV, Ye. K., Scientific Research Institute of Apiculture, Rybnoye, Ryazanskaya Oblast, Presented by Academician A. N. Belozerskiy

"Correction of the Acoustic Signal of Distance by Bees in the Presence of Sound Disturbance"

Moscow, Doklady Akademii Nauk SSSR, Vol 202, No 1, 1972, pp 211-213

Abstract: The signal emitted by bees to indicate the distance to a target is determined by the frequency, amplitude, and pulsation of the background noise. Usually the intensity of the distance signal (220-320 hz) is 15-18 db greater than the intensity of the background noise. When the bees are excited and the background noise increases, the distance signal is made appropriately louder or is shifted to higher frequencies (450-500 hz). If this frequency range is also filled by the background noise, the distance signal is spread over a wide frequency band to cover all background noise and exceed it in intensity. This indicates that the hearing organs of bees are able to discriminate the frequency of sound waves.

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USSR

UDC 612.57

BASHENOV, YU. I., YES KOVA. I. A., Loboratory of General Physiclegy, Institute of Physiology, Siberian Department of the Adademy of Sciences USSE Novoalbirsk

"Effect of Different Periods of Cold Adaptation on Muscular Thermogenesis in White Rats"

Leningrad, Fisiologichesiciy Zhurnal SSSR imeni I. M. Sechenov, Vol 58, No 9, 1972, pp 1,410-1414

Abstract: A study was made of the quantitative characteristic of muscular thermogenesis in rate subjected to varying periods of cold adaptation. Adaptation to cold significantly decreases the electrical acitivty of the muscules in response to cold. This effect is more pronounced in prolonged (20-22 weeks) adaptation than in adaptation periods (4000 weeks). In rate adapted to cold for 20-22 weeks the thermal effect of the muscular contractions (according to the exygen consumption) is 1.9 times higher than in rate with shorter adaptation adn 2.7 times higher than the control animals. The establishment of a relation between exygen consumption by the entire organism and the total activity of a large number of muscle groups is further indication of the role of the skelotal musculature in chanical thermoregulation and its significance in general thermogenesis as a result of cold adaptation.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

USSR

UDC: None

YUSEU Y

"Optimal Solution of a Aulti-Extremal Problem"

Alma Ata, Vestnik Akademii Hauk Kazakhskoy SSR, January 1971, pp 66-68

Abstract: In this brief article the author solves a problem which, in his opinion, has not been previously solved. Simply stated, it is the following: Given a set of n points in a metric space 22, to construct a tree with vertices at the given points whose length does not exceed that of any other tree with vertices at the same points. Coviously, these points should not lie on the same straight line, since the solution would then be a segment of that line. The desired tree may have any arbitrary number of additional vertices other than the given points, provided the addition of these vertices leads to a reduction in the tree's overall length. Solutions have been found only for n less than or equal to 3. The author considers the problem's solution to be a multistage process with the input of each stage given a certain number of sets and one less set at its output; thus, the n-l stage will have two sets at its input; and just one at its output.

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- 39 -

1/2 011 UNCLASSIFIED FROCESSING DATE--230CT70
TITLE--MOISTURE RESISTANCE AND CRYSTALLIZATION OF FLUOROBERYLLATE GLASSES

AUTHOR-103)-NIKOLINA, G.P., KHALILEV, V.D., YESTROPYEV, K.S.

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK SSSR, NEORG. MATER. 1970, 6(3), 582-4

DATE PUBLISHED-----70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--CRYSTALLIZATION, FLUOROBERYLLATE GLASS, GLASS COMPOSITION, GLASS PROPERTY, FLUORIDE, MOISTURE MEASUREMENT

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1997/0631

STEP NO--UR/0363/70/006/003/0582/0584

CIRC ACCESSION NO--APOIL9543

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

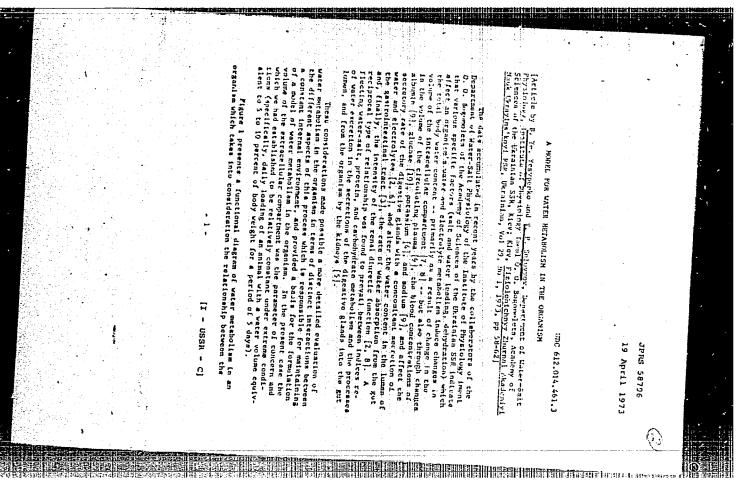
2/2 UNCLASSIFIED PROCESSING DATE--230CT70 CIRC ACCESSION NO--APO119543 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE EFFECT OF MUTUAL EXCHANGES OF FLUORIDES OF BE, K, AL, AND ALKALI EARTH ELEMENTS ON THE STABILITY TO CRYSTN. AND ON HYDROLYTIC STABILITY OF FLUDROBERYLLATE GALSSES CONTG. 54-49 MOLE PERCENT BEF SUB2 WAS STUDIED. THE SAMPLES WERE PREPD. BY CONVENTIONAL METHODS, AND SEVERAL SERIES OF THE EXPTS. WERE PERFORMED. THE SUBSTITUTION OF KE BY MGF SUB2 OR SRF SUB2 SIGNIFICANTLY INCREASES THE MOISTURE RESISTANCE OF THE INITIAL GLASS, BUT DECREASES ITS STABILITY TO CRYSTN. THE SIGNIFICANT DIFFERENCE IN THE SOLY. OF THE CRYST. CLUORIDES DOES NOT MANIFEST ITSELF IN THE SOLY. OF THE GLASSES. IN ORDER TO INCREASE THE MOISTURE RESISTANCE IT IS EXPEDIENT TO DECREASE THE CONTENT OF BEF SUB2 ANS KF IN THE GLASS. BE54MB, BE48L4, AND B4 WERE STUDIED. ON THE INTRODUCTION INTO THE GLASS GLASSES BE54, BE54M. OF YF SUB3 AND LAF SUB3. THE MOISTUE RESISTANCE INCREASES. HOWEVER, CRYSTN. THEREBY ALWAYS INTENSIFIES. AN ATTMEPT WAS MADE TO EXPLAIN THIS FROM THE EXPTL. DATA OBTAINED IT IS SHOWN THAT COMPLICATING THE COMPN. OF FLUOROBERYLLATE GLASSES BASED ON THE BEF SUB2-ALF SUB3-CAF SUB2-KF SYSTEM BY THE INTRODUCTION OF FLUORIDES OF ALKALI EARTH AND OTHER CATIONS INSTEAD OF BEF SUBZ AND KE RESULTS IN OBTAINING GLASSES WITH MOISTURE RESISTANCE WHICH IS HIGHER THAN THAT OF THE LATTER HYDROLYTIC GROUP. ADDNS. OF NDF SUB3 INCREASE THE MOISTURE RESISTANCE TO A HIGHER DEGREE THAN ADDNS. OF CEF SUB3. LENINGRAD. TEKHNOL. INST. IM. LENSOVETA, LENINGRAD, USSR.

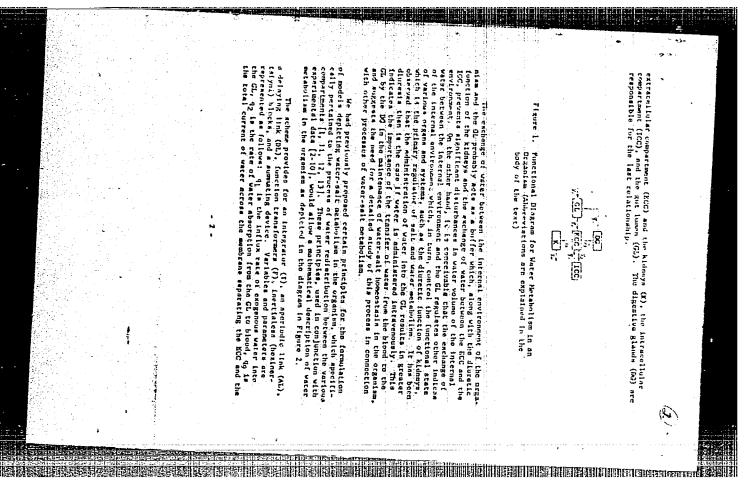
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USSR

UDC 53.07/.08+53.001.5

SHERSTKOV, Yu. A., RYBAKOV, V. A., GORLOV, A. D., YESYLIVIN, V. N.

"An Electromagnet Current Stabilizer"

Uch. zap. Ural'sk. in-ta (Scientific Notes of the Ural Institute), 1971, No 118, pp 113-117 (from RZh-Fizika, No 4, Apr 72, Abstract No 4A321)

Translation: The electron paramagnetic spectrometers currently used for studying the structure of the spectra of free radicals and the complex spectra of elements of the transition groups utilize electromagnets with electronic current stabilization of at least 10-5-10-6. The proposed supply circuit is designed for field stabilization in a radiospectrometer of the single-klystron type. The current stabilizer is designed for feeding magnets with a power of up to 3.5 kVA and stabilizes the magnetic field to 10-6. The magnet provides a field with a strength of up to 10000 oersteds in a gap of 60 mm with a pole piece diameter of 250 mm and a winding resistance of 800 chms. A diagram of the device is presented and its operation is described. A nuclear magnetic resonance pickup (IMI-2) is used for evaluating the stability of the magnetic field. Operation of the device over a three-year period has shown that it satisfies all requirements for the supply source of magnets in NMR spectrometers; it is convenient and reliable in use. B. N. Kraynov. 1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

USSA

UDC 669.083.4

PEZNYAKOV, A. A., ISAKOVA, R. A., YESYHTTIL, W. S., NESTEROV, Y. N., NECHIPORENKO, G. I., MOROZOV, I. F., ZHUKOV, P. I., ZAVADSKAYA, N. F., And KALINEI, V. Ya.

"Increasing the Effectiveness of Vacuum Refining of Selenium"

Moscow, Tsvetnyye Metally, No 1, Jan 70, pp 54-57

Abstract: Data were obtained which confirm the results of previously conducted laboratory investigations regarding the possibility of producing high-quality commercial Se in a single operation. At 450° and a vacuum of 0.6 mm Hg, the output of the apparatus was 2 t/m² per day. The yield of high-quality Se was SOT; highly volatile fractions and mother liquor accounted for 15 and 5%, respectively. During prolonged operation of the apparatus the disks overgrown with shelliness, which formed as the result of the precipitation of metal selenides suspended in Se. An investigation of the filtration of fusion and vapors of Se showed that it is possible to produce high-quality commercial Se in a single operation. The process has been introduced into Se production.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

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UNCLASSIFIED PROCESSING DATE-- 13HOV TO TITUE--A MICROSCOPE STUDY OF MENBRANE POTENTIAL OF THE FROG'S BLADDER PARASYAPATHETIC GANGLION'S NEUTONESS -U-AUTHOR-103)-BAZANGVA, I.S., VUROBYEVAND, V.S., YEUDOKIMOV, S.A. COUNTRY OF INFO--USSR SOURCE-FIZIOLOGICHESKIY ZHURNAL SSSR IMENT L. M. SECHENOVA, 1970, VOL 56, NR 5, PP 718-724. DATE PUBLISHED----70 SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--NEURON, GENITOURINARY SYSTEM, BIOPOTENTIAL CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO+-UR/0239/70/056/005/0718/0/24 PROXY REEL/FRAME--3001/1172 CIRC ACCESSION NO--APO126774 unctás i figo

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AUTHOR-CHICHININ, I.S., YEVCHAIO	Maria Ga Paraman.	
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SOURCEGEOLOGIYA, I GEOFIZIKA, 1	970, NR 1, (121) PP 102-109	
DATE PUBLISHED70		
SUBJECT AREASEARTH SCIENCES AND		
TOPIC TAGSSEISMIC WAVE, SEISMO	GRAPH, USCILLATION	
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CONTROL MARKINGNO RESTRICTIONS		
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ABSTRACT/EXTRACT(U) GP-O- ABSTRACT. IT SHOWN THAT THE VIBRATOR MOVED ONCE THROUGH THE PROFILE EXCITES THE SEISMIC WAVES WITH WEAKLY DEVELOPED ORIENTATION EFFECT. THE WAVES, JAMMING (WITH LOW SEEMED VELOCITIES) ARE ESSENTIALLY DECREASED IN AMPLITUDE IN THE CASE OF VIBRATOR MOVEMENT WITHIN THE LIMITS OF SOME BASE DURING THE WORK AND "RUN" ALONG THE TIME AXIS OF THE SEISMOGRAM.	2/2 020 CIRC ACCESSION NOAPO103	UNCLASSIFIED	PROCESSING DATE11SEP70
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UDC 547.458.5

YEVDAKOV, V. P., KHORLINA, I. M., and KHELEMSKAYA, N. M.

"The Use of Amides of Trivalent Phosphorus Acids in the Synthesis of Polygalacturonic Acid Amides"

Leningrad, Zhurnal Obshchey Khimli, Vol 43 (105), No 2, Feb 73, pp 388-393

Abstract: It was shown that amides of phosphorus acids may be used in the conversion of carboxyl and ester groups of acid polysaccharides into amides. This reaction is not accompanied by phosphorylation of the polysaccharide hydroxyl group to any noticeable degree. Varying the reaction conditions — time, temperature — the N,N-diethylamides of polygalacturonic acid may be obtained with the desired degree of amide content, from 10 to 85%.

1/1

1/2 014 UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--MONALKYL, MONARYL, ESTERS OF ALKYLPHOSPHINIC ACIDS -U-

AUTHOR-(03)-PETROV, K.A., YEVOAKOV, V.P., MIZRAKH, L.I.

COUNTRY OF INFO-USSR

SOURCE--U.S.S.R. 159,824
REFERENCE--OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970,
DATE PUBLISHED--26JAN70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--PHOSPHINIC ACID, ORGANIC PHOSPHORUS COMPOUND, ESTER, CHEMICAL PATENT, CHEMICAL SYNTHESIS

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/1748

STEP NO--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--AA0136983

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

2/2 014 FIRE ACCESSION NO. AMORE	UNCLASSIFIED	PROCESSING DATE04DEC70
CIRC ACCESSION NOAAO136988 ABSTRACT/EXTRACT(U) GP-O- TREATING DIALKYLPHOSPHINIC WITH 1 MOLE ALC. OR PHENOL.	ABSTRACT. THE TITLE	
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UDC 547,26'118

YEVDAKOV, V. P., BEKETOV, V. P., and SVERGUN, V. I.

"Interaction of Amido Phosphites and Acetyl Phosphites with Acetic Acid, Alcohols and Phonol"

Leningrad, Zhurnal Obshchey Khimii, Vol XLIII (CV), No 1, 1973, pp 55-59

Abstract: By studying the interaction of the amides of the acids of trivalent phosphorus (I) with hydroxyl-containing compounds it has been shown that the phosphorylation of the alochols by amides is accelerated in the presence of acetic acids / E. Ya. Nifant'yev, et al., Vestn. MGU, No 4, 104, 1968; E. Ye. Nifant'yev, et al., ZhoKH. No 39, 854, 1969; E. Ye. Nifant'yev, et al., ZhoKH. No 36, 865, 1966/. This phenomenon is related to the formation of the extremely reactive intermediate quasiphosphonium compound (II) by which a nucleophilic attack of the alcohol takes place ending in the formation of the trialkyl phosphite.

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. 43 -

YEVDAKOV, V. P., et al., Zhurnal Obshchey Khimii, Vol XIIII (CV), No 1, 1973, pp 55-59

Upon treating the amides (I) with acids under mild conditions, the corresponding acyl phosphites are formed / E. Ye. Nifant yev, et al., ZhOKh, No 38, 1909, 1968, in turn the acyl phosphites easily phospherilate the alcohols / V. I. Yevdakov, et al., ZhOKh, No 33, 3770, 1963/. Thus, possible the acceleration of the reaction with alcohols in the presence of acetic acid is connected with the appearance in the reaction mixture of the acetyl derivative of trivalent phosphorus.

$$P-N \leftarrow + CH_3COOH \rightarrow P-OCOCH_3 + HN \leftarrow ROH \rightarrow P-OR + CH_3COOH \cdot HN \leftarrow P$$

Accordingly, a study was made of the interaction of the anides (I) and acetyl phosphites with alcohols and phonols in the presence of acids and without them. The acceleration of the phosphorylation of the hydroxylcontaining compounds by amides of the trivalent phosphorus acids in the presence of acids for phonol is connected with the formation of acyl phosphites or aryl phosphites in the reaction mixture. The alcoholysis of the acyl phosphites is accelerated by tertiary amine additives.

UDC 547.26 118

PUDOVIK, A. N., ZIMIN, N. G., YEWDOKTMA, V. V. Kazan' State University imeni

"Reactions of C(-Ketophosphonates with Ethyl Cyanoacetate and Malononitrice"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(104), No 7, Jul 72, pp 1489-1493

Abstract: Continuing their research on the activity of the carconyl group in addition reactions with A-ketophosphonic acid esters, the authors studied the behavior of these phosphonates with ethyl cyanoacetate and malenonitrile. Reactions of diethyl aceto- and benzoylphosphonates with ethyl cyanoacetate at 120°C in the presence of entalytic quantities of piperidine or diethyl-amive produced diethyl A-methyl (phenyl)- A-cyano- A-carbothomyvinylphosphonates in 26-27% yield. The reactions are accompanied by considerable tarring and formation of large quantities of low-boiling fractions. The resultant vinylphosphonates (II) were identified by ultimate analysis and their IR spectra. Eslononitrile reacted with dimethyl, diethyl, di-m-propyl and discopropyl acetophosphonates, and with diethyl and di-m-butyl benzoyl-phosphonates. Addition of catalytic quantities of piperidine to the initial in the case of the dialkyl acetophosphonates were dialkyl Q-methyl- \(\beta \) -car-

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PUDOVIK, A. N.,				4 .7	1	
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TITLE--THERMOPHYSICAL AND THERMOMECHANICAL PROPERTIES OF A LEAD SINTER -U-AUTHOR-(02)-KOVGAN, P.A., YEVDOKIMENKO, A.I.

COUNTRY OF INFO--USSR

SOURCE--TSVET. METAL. 1970, 43(2), 13-16

DATE PUBLISHED----70

SUBJECT AREAS-PHYSICS, MATERIALS

TOPIC TAGS--POWDER METAL SINTERING, LEAD, THERMAL CONTRACTION, THERMAL CONDUCTIVITY, TEMPERATURE DEPENDENCE, THERMAL STABILITY, PARTICLE SIZE

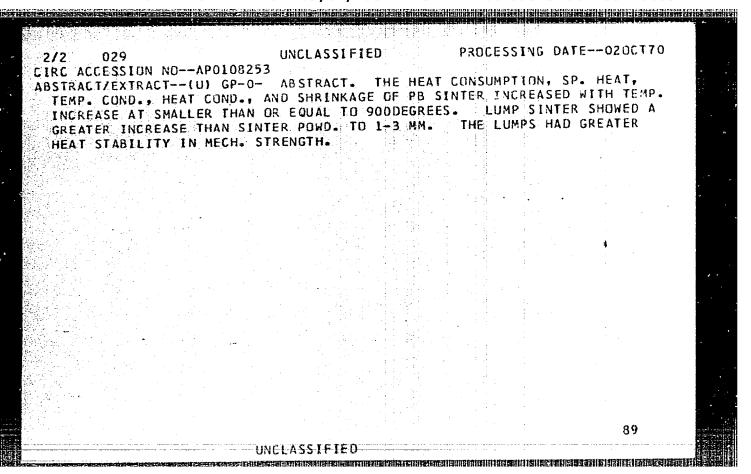
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1989/1924

STEP NO--UR/0136/70/043/002/0013/0016

CIRC ACCESSION NO--APO108253

UNCLASSIFIED



VIX 662.69:669.2

USSR

YEVDOKIMENKO, A. I., KOSTERIN, V. V., Deceased

"Natural Gas in Nonferrous Metallurgy"

Prirodnyy Gaz v Tsvetnoy Metallurgii [English Version Above], Moscow, Metallurgiya Press, 1972, 240 pages.

Translation of Annotation: The scientific principles and methods are presented, apparatus and results are described from the application of natural gas to processes in nonferrous metallurgy.

Particular attention is given to the application of natural gas in such processes as charge and reflective melting, fuming of slags and flame refining of copper. New research and operational materials are presented.

The book is designed for workers of scientific research and planning institutes, as well as engineering and technical workers of enterprises and other nonferrous metallurgy organizations. It may be useful to students at metallurgical colleges and technical schools. 87 Figures; 29 Tables; 92 Biblio. Refs.

Foreword Introduction 1/6

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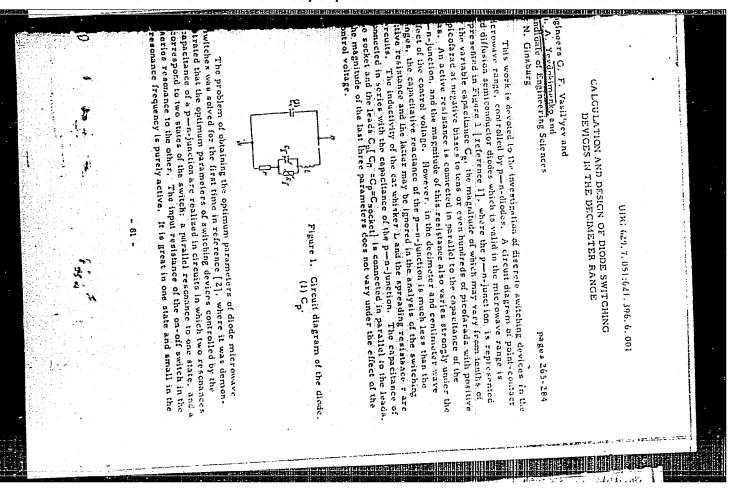
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ne standing wave ratios of all these models does not exceed 1, 15 in the ercent frequency band for both states of the phase inverter.

which correspond I disciss household become

On the basis of the models described, two models of multi-position phase inverters with a discrete value of M/8 were assembled. One of these models has optimized by the delay method, and the other by phase. Each multi-position was optimized by the delay method, and the other by phase. Each multi-position of the phase inverter consisted of four cascade-connected elements. In all positions of the phase inverter, the deviation of the experimental points from ideal curves does not exceed eight degrees. The maximum value of attenuation in the use of discount to about 0.8 decibel. The maximum standing wave ratio reaches 1.5. Semount to about 0.8 decibel. The maximum standing wave ratio reaches 1.5. However, this figure may apparently be improved if the joints and junctions between the elementary phase inverters are made more carefully.

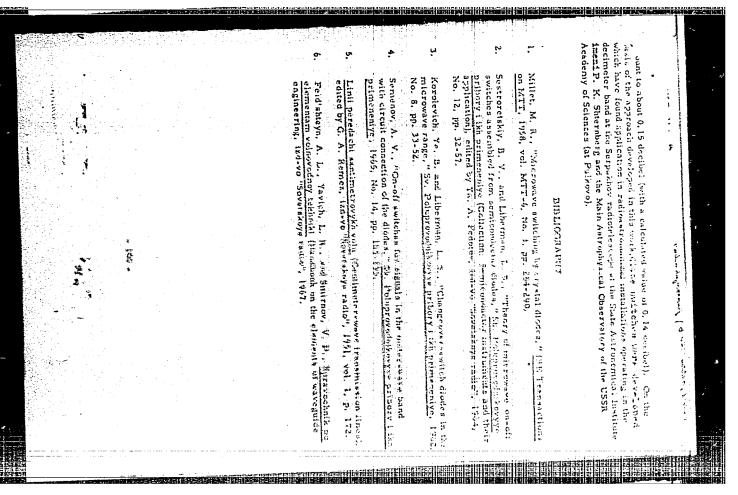
CONCLUSIONS

For construction of diode switching devices in the declineter range, it has turned out to be necessary to use on-off switches in the circuits, together with additional reactive elements controlled by diodes. The theoretical and experimental investigation of a diode on-off switch circuit containing a distributed inductivity has confirmed the assumption that such a circuit opens new opportunities for controlling the properties of an on-off switch. Because of the fact that the solid controlling the properties of an on-off switch opensity of optimization of the additional elements is distributed, the possibility of optimization of the characteristics of such devices has demonstrated that analysis of the characteristics of such devices has demonstrated that optimization of changeover switches with respect to losses is possible, and optimization of phase inverters with respect to losses or phase requency characteristics. In all these cases, optimization is provided by selection of additional relative elements of the circuit of the diode on-off switch.

were designed. The parameters of the devices measured satisfactorily coincided switch has made it possible to develop methods of engineering calculation of with these calculation methods, experimental models of diede switching devices such circuits with respect to the selected optimization conditions. with the calculated parameters, and turned out to be quite high. For example, 1A501 diodes, and optimized by the loss method, losses in the open arm turned for a diode changeover switch with one input and two outputs, assembled from distortions in the frequency bunds, the deviation of the phase from ideal lurned out to be of the order of 0.1 decibel, and the decoupling of the blocked arm about by not more than 0.2 decinets, and in the same frequency hand, for a phase error in the same frequency hand, for a phase error in the same frequency and losses in both states. losses in the two states of the phase inverter differed from the calculated values out to be not more than two degrees in a ten-percent frequency band. optimized with respect to losses, reaches 20 degrees, and losses in both states not more than 0, 2, decibels, and in the worst case did not exceed 0, 8 decibel Analysis of the requirements imposed upon circuit elements of an un-eff For phase inverters optimized with respect to the minimum of g. In accordance In this case.

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CIA-RDP86-00513R002203710009-7"



UDC 621.396.61.029.64

USSR

VASIL'YEV, G. F., YEVDOKIMENKO, YU. A., GINZBURG, V. N.

"Calculation and Design of Decimeter-Range Diode Commutation Devices"

Tr. Mosk. aviats. in-ta (Works of Moscow Aviation Institute), 197, vyp. 215, pp 265-284 (from RZh-Radiotekhnika, No 4, Apr 71, Abstract No 4D327)

Translation: Some circuits of decimeter range commutation devices are analyzed in which resonance diode breakers with distributed inductance are used. It is demonstrated that connecting the distributed reactive elements (inductive loop) to the p-n diode circuit permits realization of the optimal parameters of the diode breaker on low frequencies far from the natural resonance frequency of the commutation diode, and the parameters of the auxiliary inductance can be selected to optimize the switches and phase converters constructed on the basis of these breakers. A procedure is presented for engineering calculation of the diode breakers and more complex commutation devices. Descriptions of models of the decimeter wave range switches and phase converters and their experimental characteristics are presented. The bibliography has 6 entries.

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CIA-RDP86-00513R002203710009-7" APPROVED FOR RELEASE: 09/01/2001

USSR UDC: 51

YEVDOKIMOV. A. G., SHEKHOVTSOV, B. G.

"Linear Problem of Synthesizing a System of Regulating Elements in a Mine Ventilating Network Which is Optimum With Respect to Energy Expenditures"

Pribory i sistemy avtomatiki. Resp. mezhved. temat. nauch--tekhn. sb. (Instruments and Systems of Automation. Republic Interdepartmental Thematic Scientific and Technical Collection), 1972, vyp. 21, pp 138-153 (from RZh-Kibernetika, No 8, Aug 72, Abstract No 8V593)

Translation: A general algorithm for solving the linear problem is considered which is based on goal-directed sorting of trees of a PERT graph. A compact computational procedure is proposed. Authors' abstract.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

USSR

UDC: 51

YEVDOKIMOV, A. G. and SHEKHOVTSOV, B. G.

"Linear Problem of Synthesizing a Control System of Optimal Power Consumption in a Mineshaft Ventilating Grid"

Pribory i sistemy avtomatiki. Resp. Mezhved. temat. nauch.-tekhn.

<u>sb.</u> (Automation Instruments and Systems, Republic Interdepartmental

Topics, Scientific-Technical Collection) No 21, 1972, pp 138-153

(from RZh--Matematika, No 8, 1972, Abstract No 8V593)

Translation: A general algorithm is considered for solving a linear problem based on a purposeful selection of trees in the grid graph. A compact calculation procedure is presented. Authors' abstract

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USSR

UDC 577.4

YEVDOKIMOV. A. G., SHEKHOVTSOV, B. G., GUBAREV, S. I.

"A Problem of Mathematical Programming for Linear Restrictions"

Pribory i sistemy avtomatiki. Resp. mezhved. temat. nauch.-tekhn. sb. (Instruments and Automation Systems. Republic Interdepartmental Thematic Scientific and Technical Collection), 1972, vyp. 21, pp 51-55 (from RZh-Kibernetika, No 7, Jul 72, Abstract No 7V496)

Translation: A study was made of the necessary and sufficient conditions for the local minimum points of the problem of mathematical programming with linear restrictions. Analytical expressions of the criteria for selecting the direction and magnitude of the admissible stepsize of the differential algorithm for its solution are presented.

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UDC: 550.834

USSR

BALASHKAND, M. I., FILIPPOV, N. G., YEFIMENKO, M. D., CHEN, O. L., MAYOROV, V. V., KRASNOPOL'SKIY, A. D., SOLODILOV, L. N., YEVIDOX HOLV, Remember of the All-Union Scientific Research Institute of Geophysical Methods of Prospecting

"A Device for Emission of a Seismic Signal"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 8, Mar 72, Author's Certificate No 330407, Division G, filed 20 Jan 70, published 24 Feb 72, p 142

Translation: This Author's Certificate introduces: 1. A device for emission of a seismic signal. The device contains compressed-air and liquid-fuel supply systems and a pneumatic chamber with movable piston which opens and closes the outlet port of the chamber. As a distinguishing feature of the patent, the compressed-air discharge energy is increased and the heat and force load on the chamber is reduced by fitting the movable piston with atomizers which break up the fuel in the compressed air during gas exhaust atomizers which break up the fuel in the compressed air during gas exhaust and by attaching a device for ignition of the fuel mixture to the chamber and by attaching a device for ignition of this device distinguished by the fact that

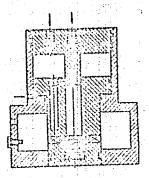
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MALASHKAND, M. I. et al., USSR Author's Certificate No 330407

the movable piston has a channel filled with fuel and communicating with the atomizer through a check valve, and the cover of the chamber has a rod which enters the channel of the piston and feeds fuel into it through the chack valve. 3. A modification of this device distinguished by the fact that the attachment for igniting the fuel mixture is made in the form of a wedge.



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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

USSR

UDC: 621.316.727

YEVDOKIMOV, M. S., SKRIPNIK, Yu. A., DREMLYUGA, V. Ya., YANDVSKAYA, I. V., Institute of Electrodynamics, Academy of Sciences of the Ykrainian SSR

"A Device for Measuring the Nonlinearity of Phase Characteristics in Circular Phase Shifters"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 26, 1970, Soviet Patent No 278871, Class 21, filed 21 April 1969, p 65

Abstract: This Author's Certificate introduces a device for measuring the nonlinearity of phase characteristics in circular phase shifters. The device contains resonance frequency multipliers, amplitude clippers, pulse shapers, a symmetric flip-flop with separate inputs and an output null indicator, all in conversion channels. As a distinguishing feature of the patent, precision is improved by connecting the phase shifter to be checked and the auxiliary phase shifter to the input of one of the channels of the phase measurement circuit through an automatic switch controlled by the voltage from a low frequency commutation oscillator. The output null indicator is connected to the output of the symmetric flip-flop through a low frequency filter, an AC amplifier, and a phase sensitive rectifier controlled by the voltage from the same commutation oscillator.

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UDC 621.791.756:621.747.58

YAKOVLEV, V. F., KOVALKIN, P. I., YEVDOKIMOV, N. I., KOZULIN, M. G., and SUSHCHUK-SLYUSARENKO, I. I.

"Electroslag Welding of Steel Casting Defects"

Kiev, Avtomaticheskaya Svarka, No 2, Feb 70, p 72

Abstract: A description is given of a technique of electroslag welding and building-up of steel casting defects. Using a water-cooled copper nonconsumable electrode, a slag bath is drawn which is then heated for a period of 15-60 min. During this time, the edges to be welded are heated to 800-1200°C, and under the effect of the heated slag the surface of the aperture is chemically cleaned. For welding the defect, the nonconsumable electrode is replaced by a spatial one which is consumable along the shape of the profile of the welded aperture. The direction of the fed welding wires plays an important role in the initial stage of fusion of the deposited metal.

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CIA-RDP86-00513R002203710009-7" APPROVED FOR RELEASE: 09/01/2001

UNCLASSIFIED PROCESSING DATE-300CT70 TITLE—CLINICAL FEATURES SPECIFIC TO HONG KONG A SUB2 INFLUENZA IN 1969 AUTHOR-(05)-ZLYDNIKOV, D.M., BEIYAYEVA, N.M., ROMANOV, YU.A., YEVDOKIMOV, N.M. CHEPIK, YE.B. COUNTRY OF INFO-USSR SQURCE-KLINICHESKAYA MEDITSINA, 1970, VOL 48, NR 5, PP 97-102 DATE PUBLISHED 70 SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS-INFLUENZA VIRUS. SEROLOGIC TEST. GAMMA GLOBULIN CONTROL MARKING—NO RESTRICTIONS DOCUMENT CLASS-UNCLASSIFIED STEP NO-UR/0497/70/048/005/0097/0102 PROXY REEL/FRAME--2000/0528 CIRC ACCESSION NO-APO124224 UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

PROCESSING DATE--300CT70 UNCLASSIFIED 2/2 CIRC ACCESSION NO-APO124224 ABSTRACT. A CLINICAL STUDY OF 684 PATIENTS ABSTRACT/EXTRACT--(U) GP-0-INTH SEROLOGICALLY CONFIRMED DIAGNOSIS DURING THE EPIDEMICS OF HONG KONG S SUB2 INFLUENZA IN LENINGRAD REVEALED NO ESSENTIAL DIFFERENCES IN THE COURSE OF A SUB2 INFLUENZA OUTBREAKS OF THE PRECEEDING YEARS. THE 1969 HONG KONG A SUB2 INFLUENZA OUTBREAK WAS CHARACTERIZED BY MODERATE INTOXICATION AND CATARRHAL SYMPTOMS. THE CLINICAL PICTURE OF INFLUENZA WAS CHARACTERIZED BY A PECULIARITY OF A NUMBER OF CLINICAL SYMPTOMS. SPECIFIC ANTI INFLUENZAL AGENST LANTI INFLUENZAL GAMMA GLOBULIN, POLYGLOBULIN, ANTI INFLUENZAL SERUM) IN THERI EARLY EMPLOYMENT PRODUCED VSESOYUZNYY NAUCHNO A DISTINCT THERAPEUTIC EFFECT. FACILITY: ISSLEDOVATEL'SKIY INSTITUT GRIPPA MINISTERSTVA ZDRAVOOKHRANENIYA SSSR, KEINICHESKAYA INFEKTSIONNAYA BOLINITSA IM. S. P. BOTKINA I 32 YA POLIKLINIKA ZHDANOVSKOGO RAYONA. UNCLASSIFIED

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1/2 020 UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--HEMOSTASIS INDICES IN RADIUM THERAPY OF LUNG CANCER -U-

AUTHOR-(03)-STRASHININ, A.I., YEVDOKIMOV, N.M., ZLYDNIKOV, D.M.

COUNTRY OF INFO--USSR

SOURCE-MEDITSINSKAYA RADIOLOGIYA, 1970, VOL 15, NR 3, PP 6-8

DATE PUBLISHED ---- 70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-RADIUM, MEDICAL NUCLEAR APPLICATION, LUNG, CANCER, FIBRINGGEN, THROMBOCYTE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1985/1695

STEP NO--UR/0241/70/015/003/0006/0008

CIRC ACCESSION NO--APO101750

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2/2 PROCESSING DATE--18SEP70 UNCLASSIFIED CIRC ACCESSION NO--APO101750 ABSTRACT/EXTRACT--(U) GP-O-ABSTRACT. UNDER STUDY WAS THE CLINICAL VALUE OF HEMOSTASIS INDICES FOR DETERMINING THE EFFECTIVENESS OF RADIUM THERAPY IN 39 PATIENTS WITH CANCER OF THE LUNG. IN THE GROUP OF PATIENTS WITH SATISFACTORY IMMEDIATE RESULT OF RADIUM THERAPY THE FOLLOWING WAS NOTED: REDUCTION OF FIBRINGEN CONCENTRATION, INTENSIFICATION OF THE FIBRINOLYTIC ACTIVITY, DECREASE OF THE QUANTITY OF THROMBOCYTES WITH NORMALIZATION OF THE THROMBOCYTE FORMULA; NO SUCH CHANGES WERE OBSERVED IN THE GROUP OF PATIENTS WITH INEFFECTIVE RADIUM SUBSEQUENT CLINICAL OBSERVATIONS OVER PATIENTS UNDERGOING RADIUM THERAPY HAVE SHOWN THAT IN PATIENTS WITH A SATISFACTORY EFFECTIVENESS OF RADIUM TREATMENT THE AVERAGE SURVIVAL COMPRISED 19 AND ONE HALF MONTHS ... WHEREAS IN PATIENTS WITH AN UNSATISFACTORY EFFECT. 7 AND ONE HALF MONTHS.

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USSR

UDC 539.124.17

VOROBIYEV, A. A., YEVDOKIMOV, O. B., and RYZHAKOVA, N. K., NII Scientific Research Institute, Tomsk Polytechnic Institute imeni S. M. Kirov

"Some General Questions in Fast Electron Transfer. IV. Transfer in Matter in an Electric Field"

Tomsk, Izvestiya Vysshikh Uchebnykh Zavedeniy -- Fizika, No 1, 1973, pp 23-27

Abstract: The article uses the segment model as the basis for a general method for calculating the passage of electrons in a substance in approximation of continuous moderation in a homogeneous electric field. The criterion of a comparatively weak field is derived for determining the Green function for the trajectory segment. A system of recurrent relations is obtained for the momenta of the distribution function. The principal properties of special functions occurring in theory are considered. The problem of electron energy degradation, with allowance for electron multiplication, is solved for an evaluation of the upper limit of the role of secondary electrons.

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Electricity & Magnetism

SR

VOROB'YEV, A. A., YEVDOKINOV O. B., and TUBALOV, N. P., Tomsk Polytechnical Institute imeni S. M. Kirov

"Effect of Overcharge of a Dielectric Charge by an Electron Beam"

Leningrad, Fizika Tverdogo Tela, No 12, Dec 71, pp 3691-3692

Abstract: It is shown for the first time that a change in the sign of the effective space charge can occur in plexiglass in the course of time. It is noted that it was known that a negative space charge of thermally insulated electrons is produced upon the irradiation of high-ohmic dielectrics by fast electrons, and this appears in the development of discharge diagrams and is applied in studying the electrical properties of dielectrics. Plexiglass discs 4.5 mm thick and coated with 5-micron aluminum foil were irradiated by 0.8-1.2 Mev electrons at a current density of 0.5 µamp/cm² for 15-20 sec, and then the space charge was tested using the effect of an electric field on the passage of beta particles through a dielectric. The charge samples were periodically irradiated by beta particles from a strontium-iridium source, and the number of passing beta particles was measured. The figure is given showing the relative change in the number of passing beta particles due to the electric field as a function of time 1/2

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VOROB'YEV, A. A., et al., Fizika Tverdogo Tela, No 12, Dec 71, pp 3691-3692

after irradiation. The figure shows that the change in sign of the effective space charge is observed if the maximum in the distribution of the stopped electrons shifts to one of the surfaces of the plate. In this case a positive space charge arises in the region of the dielectric not occupied by the negative space charge due to injection from the surface. Overcharge is attributed to leakage of the negative space charge more rapidly than leakage of the positive space charge. The observed overcharge effect is related to the electric state of the plexiglass, just as in polystyrene, which, as distinct from plexiglass, does not yield an electret state and overcharge is not observed.

2/2

67 -

Combordetion

USSR

UDC 624.131.537:626.82.06-15

YEVDOKIMOV, P. D., Professor, Doctor of Technical Sciences, APTEKAR', L. D., Candidate of Technical Sciences and KASHKAROV, P. N., LIPOVETSKAYA, T. F., and KONDRAT'YEVA, K. B., Engineers

"Experimental Studies to Determine the Stability of the Building of Nizhne-Kamskaya Hydroelectric Power Station"

Gidrotekhnicheskoye Stroitel'stvo, No 3, 1972, pp 11-15.

Abstract: Results are reported from field tests of the shear strength of the foundation of the Nizhne-Kamskaya hadraulic electric power station power house. Experiments on shear of stamps reformed in the construction trench at the level of the structure were used as a basis for the design characteristics of foundation soil strength or the power house and to establish possible types of deformation of the fundation upon shifting of the structure under the engineering and geologial conditions of the site.

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USSR

UDC: 621,372.061

YEVDOKIMOV, P. I.

"Algorithm and Circuit for an Ideal Frequency Detector"

V sb. Metody pomekhoustoychivogo priyema ChM i FM (Methods of Interference--Free FM and PM Reception--collection of works), Moscow, "Sov. radio", 1970, pp 182-192 (from RZh-Radiotekhnika, No 12, Dec 70, Abstract No 12A140)

Translation: Conclusions of the theory of optimum radio reception are taken as a basis for a new interpretation of the operation of a frequency detector, and it is shown that the classical circuits of frequency-phase detectors are autocorrelators. In this regard, the reason for nonlinearity in the characteristics of frequency-phase detectors is explained, and it is shown that the frequency detector has a characteristic with zero nonlinearity in the case of conversion of a harmonic signal to a meander signal and processing on an autocorrelator connected in an AND circuit. In conclusion, the structure of an ideal detector is given together with the results of an experimental check of one modification of such a circuit. Recome.

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TISSR

UDC 612.622.3

AVELEY, D. V., and MEYOOKIMOV, S. A., Laboratory of the Physiology of Trnate Reflex Mechanisms, institute of Physiology imeni I. P. Pavlov, Academy of Sciences USSR

"Adaptation of the M-297 Respirator for Use in Microelectrode Studies"

Deningrad, Fiziologicheskiy Zhurnal SSR imeni E. M. Sechenov, Co 1 1970, pp 124-126

Abstract: The M-207 respirator, an apparatus normally used for new-born tents, is well suited for physiological experiments, but the range of possible frequencies at which air can be pumped is limited: 15, 20, 25 or 30 inhalations a minute. One of the problems in en-periments involving the use of microelectrodes for intracellular deprivation of bioelectric potentials from individual neurons of the spinal cord arises from the respiratory movements of the thorax. The amplitude of these movements can be reduced by decreasing the volume of air supplied while increasing the rate at which it is pumped. An adapter was developed that can be fitted to the M-297 (or any other aparatus that has a crank drive for transforming ro-

USSR

AVELEY, D. V., et al., Leningrad, Fiziologicheskiy Zhurnal SSSR imeni I. M. Sechenov, No 1, 1970, pp 124-126

tatory into reciprocal motion), whereby the frequency of air pumping is increased threefold, permitting 45, 60, 75, or 90 inhalations a minute. The improve M-297 greatly improves the conditions for intracellular derivation of bicelectric potentials and stabilizes the position of the microelectrode in the cell.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

USSR

UDC 778.37

VANYUKOV, M. P., YEVDOKIMOV, S. V., NILOV, YE. V., and CHERTKOV, A. A.

"A Laser With Periodic Modulation of Quality for High-Speed Filming"

Moscow, Kvantovaya Elektronika, No 3, 1971, pp 108-110

Abstract: This brief article examines a laser which emits individual series of light pulses at a wavelength of 530 nm at a repetition frequency of the pulse train of 15 kHz. The authors examine the design of a quality modulator of a master oscillator operating on neodymium glass. They describe the theoretical circuit of the radiation converter and cite the results of testing the oscillator. Figure 1 shows the master oscillator operating at a wavelength of 1060 nm and describes the operating elements. The quality modulator is an optico-mechanical system consisting of rotating rectangular prisms. The graphic film used has a comparatively low sensitivity in the infrared band. The supply unit consists of 20 condensors, 100 \(\mu f \) each, and 20 inductance coils of 40 \(\mu h \). This supply source ensures laser operation at a repetition frequency of 1/60 Hz. The required power does not exceed 500 w. The authors found that the radiation has the form of ordinary gigantic pulses from the laser. Their duration is 40-50 nsec and the scatter in amplitudes of the

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VANYUKOV, M. P., et al., Kvantovaya Elektronika, No 3, 1971, pp 108-110

pulses does not exceed 20-25% for the first 10-12 pulses. With a pumping energy of 2000 J the total energy of the series of 30 pulses comprised 16 J at a wavelength of 1060 nm. After converting the radiation to the second harmonic, the total energy of the series of light pulses was 2.1 J at a wavelength of 530 nm. The authors mention that the frequency of pulse repetition obtained in the series is not maximal for equipment of this type. With increase in frequency, the efficiency of such an oscillator is improved and tends toward the value of the efficiency in a mode of free oscillation. The article contains 2 figures and a bibliography of 6 entries.

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Powder Metallurgy

USSR

UDC 621.762.4.001

NAYDICH, YU. V., LAVRINENKO, I. A., YEYDCKIMOV, V. A., Institute of Problems of Material Science, Academy of Sciences Ukrainian SSR

"Study of Compacting During Liquid-Phase Sintering Under Pressure In the W-Cu System"

Kiev, Poroshkovaya Metallurgiya, No 1, Jan 74, pp 34-39

Abstract: Results are presented from studies of liquid-phase sintering under pressure (LPSP) and the compacting processes which take place at high liquid phase content -- 30-60 vol % in the W-Cu system. Data from the tests showed the same relationship of effect of applied pressure on sample shrinkage (compaction) for different starting granularities, volume content of liquid phase, and sintering temperature. This relationship was that the finer the granularity of the powders, the higher the liquid-phase content, and the higher the sintering temperature, the greater is the degree of compaction. A rise in the degree of solid-phase wettability by the liquid phase promotes improved penetration of the liquid into the particle boundaries, thus improving shrinkage and compaction. It was established that shrinkage and compaction in LPSP are independent or depend very little on solid-phase particle size in systems where there is a notable acsence of component 1/2

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NAYDICH, YU. V., et al., Poroshkovaya Metallurgiya, No 1, Jan 74,pp 34-39

solubility and an inelastic solid-phase constituent. A specified plasticity of the solid phase and its incomplete wetting by the liquid phase leads to a certain decrease of shrinkage with increased particle size, and this effect is increased with increased pressure. The obtained results provide the fundamentals for selecting optimum modes which will ensure complete compaction of the sintered composites. Three figures, one table, eight bibliographic references.

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1/3 029 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--KINEFICS OF THE LUSS OF SILVER ATOMS AUSURBED ON SILICA GEL -U-

AUTHOR-(04)-PEPGVICH, G.M., LUNINA, YE.V., GOLUBEV, V.B., YEVDOKIMOV, V.B.

CCUNTRY LF INFC--USSR

SOURCE-ZH. FIZ. KHIM. 1970, 44(2), 517-20

DATE PUBLISHED ----- 70

SUBJECT AREAS -- CHEMISTRY, PHYSICS

TOPIC TAGS--SILVER NITRATE, SILICA GEL, CHEMICAL KINETICS, EPR SPECTRUM, AUSURPTICN, IKRADIATION, ISOTOPE

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME-1999/1237

STEP NO--UR/0076/70/044/002/0517/0520

CIRC ACCESSION NO--APO123199

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

2/3 029 UNCLASSIFIED CIRC ACCESSION NO--APO123199 PROCESSING DATE--300CT70 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. SAMPLES PREPD. BY SHAKING CARRIER WITH AGNC SUB3 SOLN. IN WATER FOR 3 HR, WERE WASHED WITH DISTD. WATER, DRIED AND IRRADIATED BY X UR GAMMA RAYS, AT MINUS 196DEGREES. SYNTHETIC SILICA GEL CORRESPONDING TO A SURFACE OF 660 M PRIMEZ-G AND ALUMINO SILICATE CONTG. AL SUEZ O SUB3 (12 AND ZSPERCENT) CURRESPONDING TO THE SURFACES OF 400 AND 350 M PRIMEZ-G WERE USED AS CARRIERS. INDUSTRIAL SILICA GEL SAMPLES WERE ALSO USED. THE TEMP. WAS VARIED BY CHANGING THE TEMP. OF N SUBZ FLOWING THROUGH THE RESONATOR. EPR SPECTRA OF STABILIZED AG ATEMS ON THE SURFACE SHOWED 2 DOUBLETS OF ISOTOPES PRIME107 AG AND PRIME109 AG. CONSTS. OF HYPERFINE SPEITTING DECREASED IN THE CASE OF IRRADIATED SPECIMENS FRUZEN IN SOLM. DUBLETS WERE ALSO FOUND DURING THRADN. OF AGNO SUB3 SOLN. DEPEND UPON TEMP.: AT HINUS LTODEGREES, THEY DECREASED TO SIMILAR TO 40 SPLITTING CONSTS. OF ATOMS STABILIZED UN THE SURFACE WERE INDEPENDENT OF TEMP. PERCENT RELATIVE CHANGE IN SPLITTING CONSTS. IS EXPRESSED AS DELTA(DELTAV)-DELTAV SUBFREE WHERE DELTA(DELTAV) EQUALS DELTAV MINUS DELTAV SUBFREE. DELTAV AND DELTAV SUBFREE ARE SPLITTING CUNSTS. OF STABILIZED AND FREE ATUMS OF THE ISOTUPES BEING STUDIED. CHARACTERISTIC CURVES FOR THE LOSS OF AG ATOMS AT MINUS 140DEGREES ADSORBED ON SILICA GEL AND STABILIZED IN FROZEN SOLN. ARE GIVEN. THE EFFECTS OF TEMP. AND RATE OF MELTING ARE CONSIDERED. IT IS ASSUMED THAT DURING IRRADIATION, ENERGIZED TRAPS ARE FORMED IN THE CARRIER. HEATING OF THE SPECIMEN, SOME OF THE ELECTRONS ARE SET FREE WHICH ARE RESPONSIBLE FOR THE REDN. OF SOME OF THE AG PRIMEPUSITIVE IONS TO AG UNCLASSIFIED

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PUKHOV, G. YE., Academician of the Academy of Sciences Ukrainian SSR, and YEVDOKIMOV, V. F., Institute of Electrodynamics, Academy of Sciences Ukrainian SSR, Kiev

"The Use of Digital Nonalgorithmic Machines for the Modeling of Differential Equations"

Moscow, Doklady Akademii Nauk SSSR, Vol 208, No 3, 1973, pp 570-572

Abstract: The article considers one of the possible uses of digital nonalgorithmic machines for solving systems of differential equations which

$$\frac{dX}{dt} + A(X)X = F. (1)$$

Descriptions are given of a device for obtaining the sum of the paired products

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PUKHOV, G. YE., and YEVDOKIMOV, V. F., Doklady Akademii Nauk SSSR, Vol 208, No 3, 1973, pp 570-572

$$y = a_1 x_1 + a_2 x_2 + \ldots + a_n x_n + \ldots + a_n x_n$$
 (2)

and a device for solving a system of three equations of form (1), whose construction follows the pattern of a matrix analog model designed to solve the same equations.

The technique of solving differential equations by means of digital nonalgorithmic machines is rather general, since any system of differential equations, as well as individual high-order equations, reduces to form (1). Sometimes, however, particularly in the modeling of automatic control systems, the need arises for the so-called structural realization of systems of differential equations. In this case it is necessary to have a set of decicion elements for the digital nonalgorithmic machines realizing the individual operations and to interconnect them according to the structure of

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PUKHOV, G. YE., and YEVDOKIMOV, V. F., Doklady Akademii Nauk SSSR, Vol 208, No 3, 1973, pp 570-572

the modeling system. The process of preparing problems for solution on the digital nonalgorithmic machines is the same as in analog computer technology. The use of the digital nonalgorithmic machines to solve differential equations substantially expands the frequency range of obtainable results as compared to existing digital computers and increases precision as compared to analog computers.

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UDC: 681.325.5

PUKHOV, G. Ye., Academician of the Ukrainian Academy of Sciences, and YEVDOKIMOV, V. F.

"A Possible Principle in the Construction of Digital Computers"

Moscow, Doklady Akademii Nauk SSSR, 11 January 1973, pp 287-290

Abstract: The accuracy and speed of digital computers are roughly proportional to the volume of the equipment required for the computations; in analog computers, the accuracy is limited by the potentials of the computing elements and the speed is practically independent of the volume of equipment. This paper investigates the possibilities of constructing machines in which the equipment volume is independent of the speed but increases with increasing accuracy as in digital devices. There is thus the possibility of developing machines with the accuracy of digital and the speed of enalog computers, which situation is considered a practical impossibility in computer practice. It can be attained by using the nonalgorithmic principle, widely used in analog machines, in digital equipment. The authors refer to machines using this principle as digital non-algorithmic machines, and they indicate three possible directions in which they may develop.

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USSR

BOOK

352

UDC 517.4.001.57

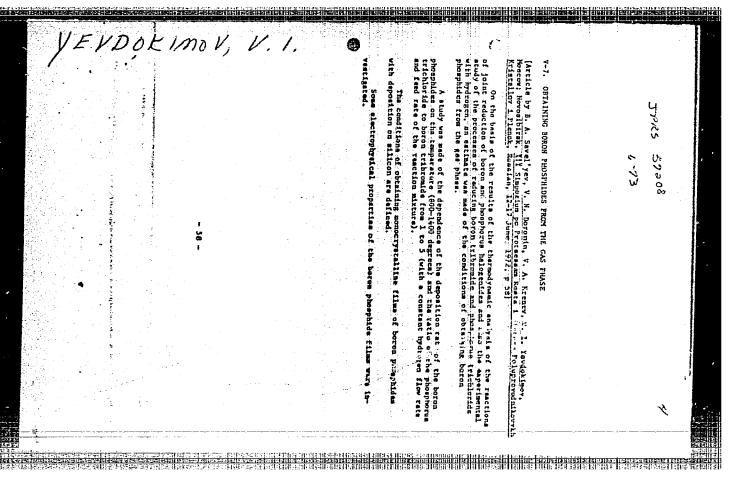
VERLAN', A. F., and YEVDOKIMOV, V. F.

Elektronnoye Modelirovaniye Peredatochnykh Funktsiy (Electronic Simulation of Transfer Functions), Kiev, "Tekhnika," 1971, 232 pp, illus, biblio 103 titles, 3,700 copies printed.

Translation of Annotation:

The book deals with problems involving the development and use of methods of electronic simulation of transfer functions. Basic data are presented from the mathematical apparatus of transfer functions; hardware and software for simulating fractional-rational transfer functions are described as well as a number of procedures for deriving and modeling approximating expressions for irrational and transcendental transfer functions. Consideration is given to applications of the described procedures for studying objects and systems with distributed parameters and for solving certain partial differential, integral, and transcendental equations. The book is intended for specialists in the area of analog computer technology and automatic control, scientific workers and engineers engaged in the study of the dynamics of various systems, and also for students majoring in related fields.

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1/2 044

UNCLASSIFIED

PROCESSING DATE--27NOV70

ON THE HOLE AND ELECTRON CONCENTRATION -UAUTHOR-(03) EVDOKIMOV, V.M., KUKHARSKIY, A.A., SUBASHIYEV, V.K.

COUNTRY OF INFO--USSR

SOURCE--FIZIKA I TEKHNIKA POLUPROVODNIKOV, VOL. 4, MAR. 1970, P. 573-576

DATE PUBLISHED----70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--OPTIC PROPERTY, PHONON, GALLIUM ARSENIDE, ELECTRON DENSITY, IR

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1994/0994

STEP NO--UR/0449/70/004/000/0573/0576

CIRC ACCESSION NO--APOLISOIS

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

2/2 044 UNCLASSIFIED CIRC ACCESSION NO--APO115015 PROCESSING DATE--27NOV70 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. ANALYTICAL AND EXPERIMENTAL INVESTIGATION OF THE IR REFLECTION SPECIFA OF SEMICONDUCTORS BEYOUND THE INTRINSIC ABSORPTION EDGE, IN THE CASE WHERE THE PLASMA FREQUENCY IS CLOSE TO FREQUENCY OF THE OPTICAL PHONONS. IT IS SHOWN THAT IN ORDER TO OBTAIN INFORMATION ON THE INTERACTION BETWEEN THE PHONONS AND THE FREE CHARGE CARRIERS, IT IS ESSENTIAL TO TAKE INTO ACCOUNT THE DAMPING OF BOTH THE ELECTRON AND PHONON SYSTEMS. A PHENOMENOLOGICAL LIFETIME OF OPTICAL PHONONS (DEFINED AS A QUANTITY RECIPROCAL OF THE DAMPING IN THE OSCILLATOR EQUATION DESCRIBING LATTICE VIBRATIONS) IS INTRODUCED WHICH CHARACTERIZES THE DAMPING OF THE PHONON SYSTEM. IT IS FOUND THAT THE PHONON LIFETIME DECREASES MONOTONICALLY WITH INCREASING NUMBER OF HOLES, WHICH AN INCREASE IN THE ELECTRON CONCENTRATION LEADS TO AN ABRUPT INCREASE IN THE PHONON LIFETIME. THIS UNEXPECTED RESULTS IS ATTRIBUTED TO THE DIFFERENT SCREENING ACTION OF ELECTRONS AND HOLES. FACILITY: AKADENIIA NAUK SSSR, INSTITUT POLUPROVODNIKOV, LENINGRAD,

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

UNCLASSIFIED

1/2 021 UNCLASSIFIED PROCESSING DATE--090CT70
TITLE--THE DIAGNOSIS OF TRAUMATIC INTESTINAL INTRAMURAL HEMATUMAS -U-

AUTHOR-102)-YEVDOKIMOV, V.N., FIDRUS, YE.I.

COUNTRY OF INFO--USSR

SOURCE—VESTNIK KHIRURGII IMENI I. I. GREKOVA, 1970, VOL 104, NR 5, PP 94-98
DATE PUBLISHED————70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-SMALL INTESTINE, TRAUMATOLOGY, RADIOGRAPHY, DIANOSTIC MEDICINE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY RELL/FRAME—1990/0581

STEP NO--UR/0589/70/104/005/0094/0098

CIRC ACCESSION NO--APO108796

UNCLASSIFIED

2/2 021 UNCLASSIFIED PROCESSING DATE--090CT70 CIRC ACCESSION NO--APO108796 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. OBSERVATIONS OVER 12 PATIENTS WITH TRAUMATIC INTRAMURAL HEMATOMAS OF THE BOWEL ARE SUMMARIZED. CONTRAST X RAY INVESTIGATION OF THE BOWEL IS FELT TO BE OF GREAT IMPORTANCE FOR THE SURGICAL POLICY IS VARIED DEPENDING ON THE CHARACTER OF DIAGNOSIS. CLINICORDENTGENOLOGICAL CHANGES. INDICATIONS TO URGENT SURGICAL INTERVENTION IS SUCH AN AFFECTION ARE DESCRIBED. FACILITY: RENTGENOVSKOGO OTD. AND KHIRURGICHESKOY KLINIKI MOSKOVSKOGO N I INSTITUTA IM. N. V. SKLIFOSOVSKOGO. UNCLASSIFIED

USSR

UDC 629.78:621.398

KHODAREV, Yu. K., YEVDOKIMOV, V. P., POKRAS, V. M.

"Statistical Analysis of Information from Long Range Space Vehicles"

Apparatura dlya Kosmich. Issled. [Equipment for Space Studies -- Collection of Works], Moscow, Nauka Press, 1972, pp 239-245, (Translated from Referativnyy Zhurnal, Raketostroyeniye, No 9, 1972, Abstract No 9.41.227, from

Translation: The statistical characteristics of telemetry information from the "Zond-1" and "Venera-4" space probes are analyzed. The distribution of the number of active channels is calculated using an excess of the channel value above a certain threshold generated by a zero-order predictor as a criterion for channel activity. The distributions are calculated for various the spacecraft sensors. Data are produced on slight changes in the mean number of active channels during communications sessions at widely differing calculated. The statistical characteristics studied are used to determine 2 Tables; 2 Biblio. Refs.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

Burn Studies

USSR

IVANOVA, N. P.; YEVDOKIMOV, Ve. A.; SHEKHTER, A. B.; ISTRANOV, L. P.; RUDENKO, T. G.; SYCHENIKOV, I. A.; Central Scientific Research Laboratory imeni S. I. Chechulin, First Moscow Medical Institute imeni I. M. Sechenov, and Central Institute of Traumatology and Orthopedics.

"Application of Collagen Sponge in the Treatment of Burns"

Moscow, Novoye v Diagnostike, Lechenii, Profilaktike Vazhney-shikh Zabolevaniy i Metodakh Issledovaniya (News in Diagnosis, Treatment, and Prophylaxis of the Most Important Diseases and Methods of Investigation), Ministerstvo Zdravookhraneniya SSSR, 1971, 128 pp, pp 51-52

Abstract: Notwithstanding the large variety of materials and drugs used for the dressing and treatment of burns, to this date there is no generally accepted method of treatment. During the past few years information has appeared concerning the extensive utilization of collagen polymer preparations for the treatment of burns, trophic ulcers, scalp wounds, and so on,

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IVANOVA, N. P., et al, Novoye v Diagnostike, Lechenii, Profilaktike Vazhneyshikh Zabolevaniy i Metodakh Issledovaniya, 1971, 128 pp, pp 51-52

which is absorbed by the organism and has a positive effect on the regenerative processes of the lesion.

The porous collagen sponges are hemostatically effective, and by their hygroscopic and structural properties securely protect the injured surface from the effects of the external environment, considerably reduce plasma loss, and contribute to the growth of granulation tissue and the rapid healing of the lesions. In addition, the collagen can be permeated with different medicinal substances (antibiotics, antiseptics, hormones, vitamins, substances stimulating the growth of connective tissue, and others) which are released by lysis of the collagen sponge.

Taking into consideration the positive properties of the collagen preparation, researchers at the Central Scientific Research Institute of Traumatology and Orthopedics Burn Section applied 2/4

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USSR

IVANOVA, N. P., et al, Novoye v Diagnostike, Lechenii, Profilaktike Vazhneyshikh Zabolevaniy i Metodakh Issledovaniya, 1971, 128 pp, pp 51-52

a collagen sponge 0.5-0.8 cm thick and filled with boric acid, hydrocortisone, and furacillin to 20 patients with fresh burns and large granulation surfaces.

For the treatment of second and third degree burns, sponges corresponding in size to the injured areas were placed on the processed burned surfaces. Aseptic dressings were then applied. The dressings were changed within 2-3 days, and subsequently as required by the condition of the burned surface and the rapidity of lysis of the sponges. When applied to moist wound surfaces, the collagen sponges closely adhered to the wound, absorbing the lesion exudate. When exudation was copious, the sponges were absorbed by the second or third days.

The positive aspects of the application of collagen sponge are its rapid and painless covering of the burned surfaces, and the possibility of permeating the sponge with different medicinal substances which are able to exert a direct local effect on the

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IVANOVA, N. P., et al, Novoye v Diagnostike, Lechenii, Profilaktike Vazhnevshikh Zabolevaniy i Metodakh Issledovaniya, 1971, 128 pp, pp 51-52

wound with lysis of the sponge. Collagen sponges can be recommended for use in the general set of therapeutic measures for the treatment of patients with burns as a temporary dressing for the preparation of large injured surfaces for subsequent autoplasty.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

1/2 017

UNCLASSIFIED TITLE--THE USE OF EPOXY COMPOUNDS FOR RESTORING THE FIT OF ANITERICTION PROCESSING DATE--11SEP70

AUTHOR--YEVDOKIMOV, YU.A., YEVDOKIMOVA, I.I., STOLYAROV, YU.P.

COUNTRY OF INFO--USSR

SOURCE-MOSCOW, VESTNIK MASHINOSTROYENIYA, NO 2, 1970, PP 51-52

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--EPOXY RESIN, GLUE, ANTIFRICTION BEARING, RAILWAY ROLLING STOCK

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1993/1569

STEP NO--UR/0122/70/000/002/0051/0052

CIRC ACCESSION NO--APO114157 7777777777

UNCLASSIFIED

USSR

UDC: 621.517.361

DYATLOV, A. P. and YEVDOKIMOV, Yu. F.

"Analyzing the Doppler Frequency Shift Simulator"

Kiev, <u>Izvestiya VUZ - Radioelektronika</u>, vol. 14, No. 5, 1971, pp 544-551

Abstract: The Doppler signal simulator transforms its input frequency, which may be in the high or intermediate frequency range, into some other frequency. In this process, the Doppler frequency shift is constant and independent of the input frequency. In checking the device, however, the frequency shift must be a function of the input frequency. This article analyzes a simulator which satisfies these requirements. As a substitute for the imitator, the subject of the analysis is a dispersionless delay line in which the delay varies linearly with time. Such a substitution is valid since the output of such a line is shifted in frequency with respect to the input in quasi-Doppler fashion. The authors discuss the linear tuning of the delay line, tuning the line with a sawtooth function having zero and finite retrace intervals, and the spectrum of the line's output signal with sawtooth tuning.

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USSR

UDC: 621.396.619.13:621.374.4

YEVDOKIMOV, Yuz F., MURAVLEV, V. M., DANILENKO, A. I., BONDARENKO, V. P.

"A Frequency Divider With Variable Division Coefficient and High Phase Stability of the Output Frequency"

V sb. Materialy Nauchno-tekhn. konferentsii prof.-prepodavat. sostava Khar'-kov. in-ta radioelektron. (Materials of the Scientific and Technical Conference of the Professional and Teaching Staff of the Khar'kov Institute of Radio Electronics), Khar'kov, Khar'kov University, 1969, pp 66-70 (from RZh-Radiotekhnika, No 12, Dec 70, Abstract No 12D46)

Translation: A controllable frequency divider for digital synthesizers is proposed which has high stability of the phase of the output voltage and a speed which is independent of the number of digital places in the counter. The frequency divider consists of three scaler decades, counting and codence pulse amplifiers, commutation devices for setting up different division coefficients in the decimal system of notation, a potential decoder and a reset circuit. All decades are connected in series and have nine outputs apiece which are connected in a predetermined sequence to the potential decoder. N. S.

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USSR

UDC: 621.396.622.3

GELOZHE, Yu. A., YEVDOKIMOV, Yu. F.

"Singularities in the Design of Digital Frequency Synthesizers"

V sb. Materialy Nauchno-tekhn. konferentsii prof.-prepodavat, sostava Khar'-kov. in-ta radioelektron. (Materials of the Scientific and Technical Conference of the Professional and Teaching Staff of the Khar'kov Institute of Radio Electronics), Khar'kov, Khar'kov University, pp 80-83 (from EZh-Radiotekhnika, No 12, Dec 70, Abstract No 12D45)

Translation: The paper deals with questions of the effect which individual modules and elements of a digital frequency synthesizer have on synthesizer characteristics, as well as problems of breaking the frequency range of the synthesizer down into subranges, and selecting the comparison frequency and type of phase detector. Bibliography of two titles. N. S.

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USSR

UDC 621.317.7:621.374.5

YEVDOKIMOV, YU. F. and DYATLOV, A. P.

"Realization of Tunable Delay Lines and Their Use in Automatic Correlators"

Tr. Taganrog. radiotekhn. in-ta (Works of the Taganrog Radio-Engineering Institute), 1972, vyp.28, pp 88-94 (from RZh-Radiotekhnika, No 11, Nov 72, Abstract No 11 A272)

Translation: The authors study the possibility of realizing the discrete tuning of delay lines and the effect of discrete tuning on the spectrum of the signal at the delay line between the input and the output with increasing time lag. Several

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1/2 029

230 H TO: 2

UNCLASSIFIED

PROCESSING DATE--020CT70 TITLE--LOCAL X RAY SPECTRAL STUDY OF A ZIRCONIUM, NIOBIUM, NICKEL SYSTEM -U-

AUTHOR-(04)-YEVDOKIMOVA, A.D., KUZNETSOVA, S.M., RONAMI, G.N.,

SCKOLOVSKAYA. E.M.

CCUNTRY OF INFO--USSR

SOURCE--VESTN. MOSK. UNIV. KHIM. 1970, 11(1), 62-6

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--X RAY ANALYSIS, SPECTROSCOPIC ANALYSIS, ZIRCONIUM ALLOY, NIOBIUM ALLOY, NICKEL ALLOY, METAL HEAT TREATHENT, PHASE DIAGRAM, PHYSICAL CHEMISTRY PROPERTY

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1989/0614

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CIRC ACCESSION NO--APO107211

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710009-7"

2/2 029 UNCLASSIFIED CIRC ACCESSION NO--APO107211 PROCESSING DATE--020CT70 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. THE TERNARY SYSTEM WAS STUDIED USING ZR-NB-NI ALLOYS WHICH HAD BEEN HEAT TREATED FOR 700 HR AT 800 DEGREES AND 2000 HR AT 500 DEGREES. THE RESULTS ARE TABULATED AND THE PHASE EQUIL. DIAGRAM IS GIVEN. NO ESSENTIAL CHANGE WAS OBSERVED IN THE CHARACTER OF THE INTERACTIONS FROM THOSE DETD. BY PHYS. CHEM. METHODS. THE COMPOS. ZRNI SUB5, ZR SUB2 NI SUB7, AND ZR SUB2 NI SUB5 FORM QUASIBINARY SECTIONS WITH NBNI SUB3. THE REGION OF HOMOGENEITY FOR NBNI SUB3 IS WIDENED GREATLY BY ALLOYING WITH ZR. UNCLASSIFIED.

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USSR

UDC: 536.7

YEVDOKINOVA; A. D., KUZNETSOVA, S. M., RONAMI, G. N., SOKOLOVSKAYA, YE. M., Tepartment of General Chemistry, Moscow State University imeni M. V. Lomanosov, Moscow, Ministry of Higher and Secondary Specialized Education RSFSR

"Investigation of the Zirconium-Niobium-Nickel System by Local X-ray Spectral Analysis"

Moscow, Vestnik Moskovskogo Universiteta, Seriya II, Khimiya, Vol 11, No 1, Jan/Feb 70, pp 62-66

Abstract: Data are given from local X-ray spectral analysis of the ternary zir-conium-nicbium-nickel system using the MS-46 microanalyzer made by the French "Cameca" Company. Alloys of zirconium with niobium and nickel heat treated at 800°C for 700 hrs and at 500°C for 2,000 hrs were used. The error in determination of the element being analyzed was 1-2%. The resultant data are tabulated, and a diagram of the phase equilibria in the system at 800°C is given. The compounds ZrNi5, Zr2Ni7 and Zr2Ni5 form quasi-binary cross sections with NbNi3. The region of homogeneity of the intermetallic compound NbNi3 is considerably expanded by alloying with zirconium. An analogous picture is observed in the case of Zr7Ni10. The phase diagram plotted from the experimental data agrees with those obtained by other methods of physical and chemical analysis.

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Pesticides

USSR

UDC 577.15/17

YEVDOKIMOVA G. A., RAYTSINA, G. I., KOSTYUKEVICH, L. I., and MILYUSHCHIHA, N. A., Peat Institute, Academy of Sciences Belorussian SSR

"Sulfuric Acid Hydrolyzates of Lowland Peats as Growth Stimulators for Microorganisms and Plants. Composition of Nitrogen-

Minsk, Izvestiya Akademii Nauk BSSR, Seriya Khimicheskikh Nauk, No 6, 1970, pp 87-90

Abstract: The authors studied the amino acid composition of sulfuric acid hydrolyzates of five samples of lowland peat, obtained by the action of sulfuric acid of varying concentrations at atmospheric and elevated pressure. The amino acids were isolated from the hydrolyzates by absorption on cation exchanger KU-2, chloric acid. It was found that hydrolysis of lowland peat with time 6 hours) gives a hydrolyzate containing 17 amino acids.

The amino acid yield increases with increased acid concentration,

USSR

YEVPOKTKOVA, G. A., et al., Izvestiya Akademii Nauk FSSR, Seriya Khimicheskikh Nauk, No 6, 1970, pp 87-90

6-6.5 percent of the organic substance of the hydrolyzate and about 2 percent of the organic substance of the peat are acted upon by 15-30 percent H₂SO_b. The nitrogen of the sulfuric acid hydrolyzates enters into the composition of amino acids (13.5-13.8 percent of the total nitrogen of the hydrolyzate) and ammonia compounds (34.1-59.5 percent).

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USSR

UDC 613.644+613.65]-07:612.824

YEVDOKIMOVA, I. B., PETSKALEV, A. Z., and SHKARINOV, L. N., Institute of Labor Hygiene and Occupational Diseases, Academy of Medical Sciences USSR, Moscow

"Investigation Into Cerebral Circulation Under Separate and Joint Effects of Intensive Noise and Physical Loads"

Moscow, Gigiyena Truda i Professional nyye Zabolevaniya, No 7, 1973, pp 1-5

Abstract: Effects of noise, physical exertion, and their combination on cerebral circulation were studied rheoencephalographically on tire plant laborers experiencing either noise alone (85-105 db) or noise (82-101 db) and physical exertion, and experimentally on males in a soundproof room subjected to either 108 db for 1 hour, physical exertion, or both. In the industrial setting blood circulation changed in both groups following a hypertensive pattern to varying degrees. Arterial tonus changed in most cases. Heightened noise (108 db) produced a drop in venous tonus and encumbered venous backflow. In the experimental setting noise alone resulted in weaker vasoconstriction and reduced blood flow, work alone resulted in heightened vasoconstriction and increased flow, while the combination lowered inflow in the presence of heightened vasoconstriction, indicating 1/2

USSR

YEVDOKIMOVA, I. B., et al., Gigiyena Truda i Professional'nyye Zabolevaniya, No 7, 1973, pp 1-5

a sharp increase in vascular tonus. It is suggested that under pathological conditions stable noise (85 db) alone and variable noise plus work would produce a hypertensive pattern, while stable noise at higher intensities would cause an atonic pattern coupled with poor venous backflow. Although noise and work combined facilitate cerebral circulation the heightened vessel tonus may cause malnutrition in brain cells. Thus all conditions studied here should be considered potentially dangerous.

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- 79 -

UDC 612.824+612.85].014.45+613.644:[616.831-005+616.28

SHKARINOV, L. N., and YEVDOKIMOVA I B. Institute of Industrial Hygiene and Occupational Diseases, Academy of Medical Sciences USSR, Moscow

USSR

"Relationship Between Noise-Induced Functional Changes in the Cerebral Blood Supply and Acoustic Sensitivity"

Moscow, Gigiyena Truda i Professional'nyye Zabolevaniya, No 11, Nov 70, pp 23-26

Abstract: An investigation was made of cerebral hemodynamics and acoustic sensitivity in 176 industrial workers exposed to steady (108 db) or pulsed (105 db) noise over a period of years. It was found that cerebral hemodynamics is highly sensitive to noise, with functional changes occurring sooner than in the acoustic analysor. Hearing impairment was noted in a substantial number of persons in the group exposed to steady noise over a period of 6 years and in those exposed to pulsed noise for 11 years. Maximum hearing losses occurred in both groups after 20 to 25 years of work. Other things being equal, the extent and rate of functional shifts in the cerebral blood supply vary with the amount of acoustic energy entering the ear. Over a period of years, intense industrial noise, particularly steady

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USSR

SHKARINOV, L. N., and YEVDOKIMOVA, I. B., Gigiyena Truda i Professional'nyye Zabolevaniya, No 11, Nov 70, pp 24276 and noise at 108 db or more, will impair the normal circulation of blood in the brain and thereby create unfavorable conditions for the functioning the brain and thereby create unfavorable conditions for the functioning of the acoustic analysor. The temporary shifts eventually become persistent and irreversible, resulting in loss of hearing.

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1/2 017 UNCLASSIFIED PROCESSING DATE-11SEP70
TITLE-THE USE OF EPOXY COMPOUNDS FOR RESTORING THE FIT OF ANITERICTION
BEARINGS -UAUTHOR--YEVDOKIMOV, YU.A., YEVDOKIMOVA, I.I., STOLYAROV, YU.P.

COUNTRY OF INFO--USSR
SOURCE--MOSCOW, VESTNIK MASHINOSTROYENIYA, NO 2, 1970, PP 51-52

DATE PUBLISHED-----70

SUBJECT AREAS--MATERIALS, MECH., IND., CIVIL AND MARINE ENGR
TOPIC TAGS--EPOXY RESIN, GLUE, ANTIFRICTION BEARING, RAILWAY ROLLING STOCK

CONTROL MARKING--NO PESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED

PROXY REFL/FRAME--1993/1569

CIRC ACCESSION NO--APO114157

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